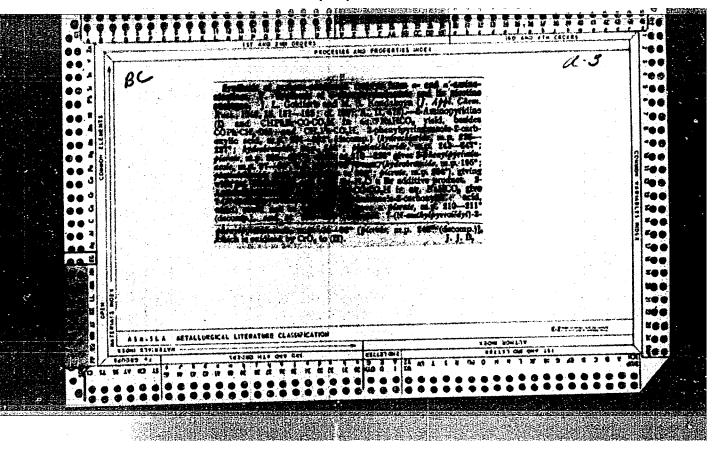


KOMDAKOVA, H. S., GOL' DE'ARB, Ya. L.

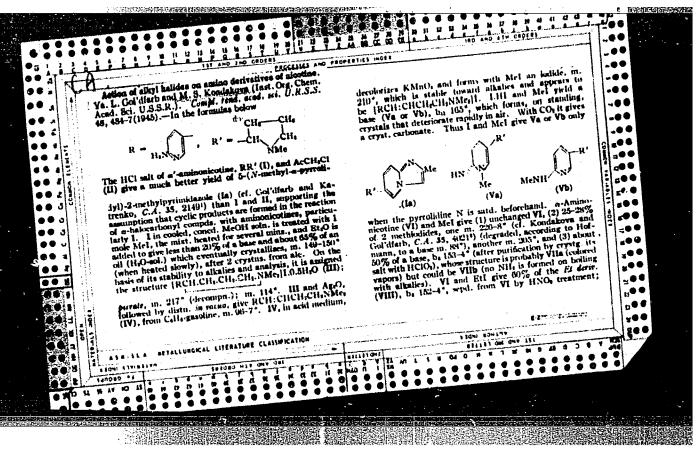
"Syntheses of Carbazole Condensed Systems From Aminonicotines -- IV. Condensation of Aminonicotines With Acetoacetic Ester." Zhur. Obshch. Khim., 10, No. 12, 1940. Lab of Heterocyclic Compounds, Inst. of Organic Chemistry Academy of Sciences USSR. Received 2 January 1940.

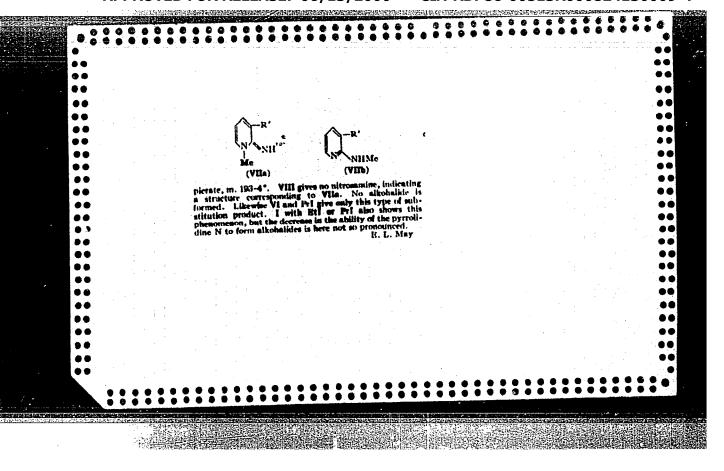
Report U-1627, 11 January 1952.

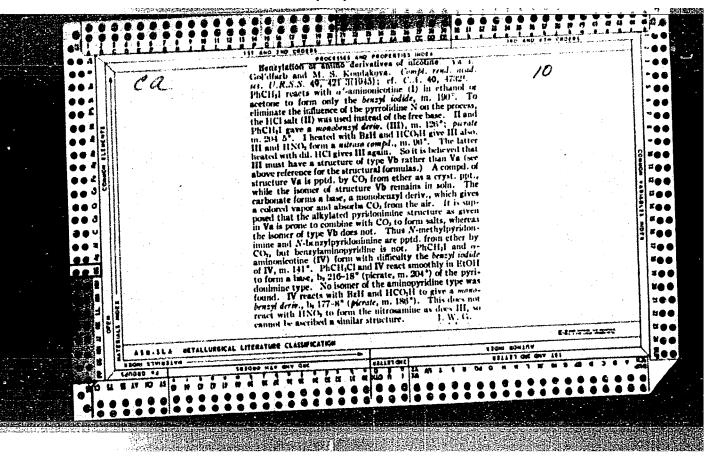


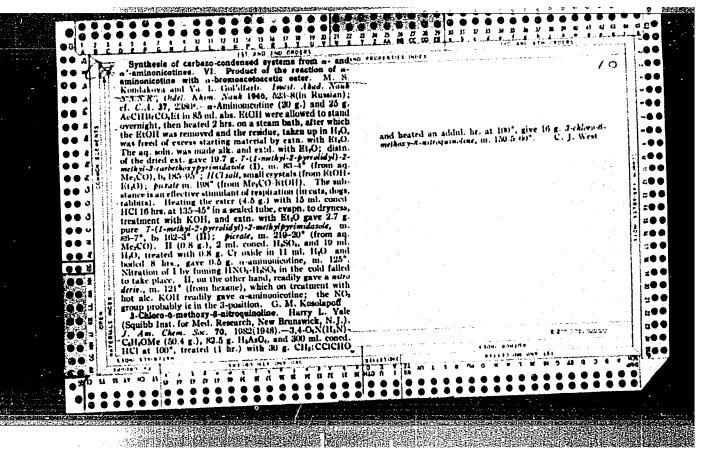
# "APPROVED FOR RELEASE: 06/13/2000

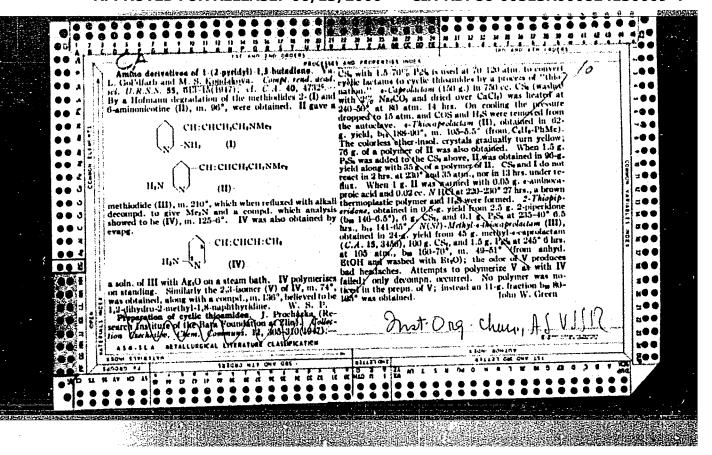
# CIA-RDP86-00513R000824130009-4

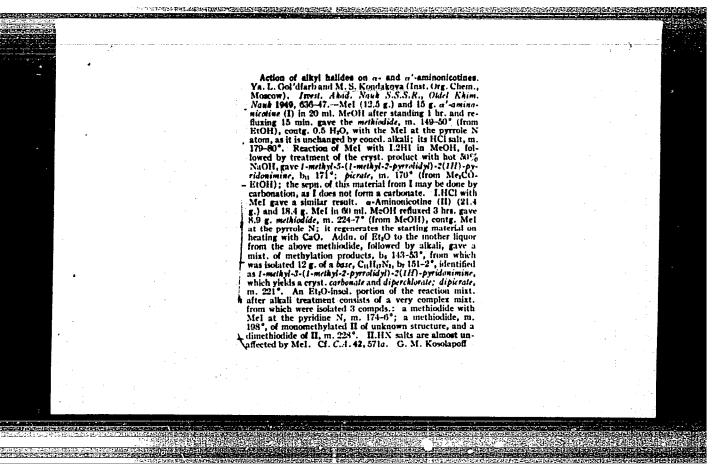


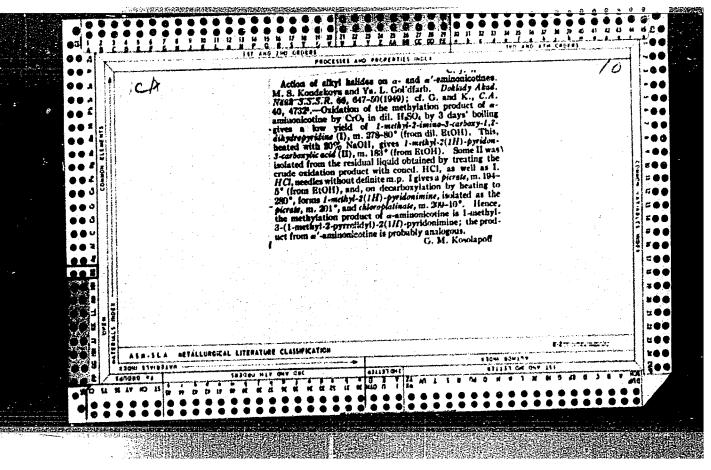












Bensylation of amino derivatives of alcotine. Va. 1. Gol'dfarb and M. S. Kondakova (Acad. Sci. U.S.S.R., Moscow). Irreit. Akad. Ndik S.S.S.R., Oldel. Khim. Nauk 1950, 281-07; cf. C.A. 44, 3992e.—Refluxing 10 g. a'-aminonicotine, 15 g. of its di-HCl salt, 15 g. PhCH<sub>2</sub>Cl, and 70 ml. abs. BtOH for I day yielded after conen. washing with dil. HCl, and extn. with Call<sub>41</sub> 4.3 g. I-bensyl-5-(I-methyl-2-pyriolidyl)-2-pyrioloximine (II), ba 213-14\* (dipicrate, in: 28\*), and 2.3 g. bensyl-1-eminonicotine with 24 g. BeH and 100 ml. 85% HCO<sub>2</sub>H 20 lits. followed by conen. is neuro, gavg 30 g. I (Eipicrate, m. 204-6\* (from RtOH). Hcl. Gol). It (B.g.) with 1.4 g. NaNO<sub>4</sub> in 20% HCl. gave 4 g. nitroto deriv. HCl. decomp. 173\* (from EtOH); Iree nitroto deriv. HCl., decomp. 173\* (from EtOH); Iree nitroto deriv. HCl., decomp. 173\* (from EtOH); Iree nitroto deriv. HCl, decomp. in acid solns., yielding I. Refluxing 9 g. a'-aminonicotine with 0.5 g. PhCH<sub>3</sub>Cl in EtOH, followed by conen., treatment with dil. HCl, and extn. with Call<sub>2</sub> gave 6.8 g. poorly distillable oil, b. 160-260\*; no I was isolated directly and treatment of the product with NaNO<sub>2</sub> in HCl failed to give any nitroso deriv. (see above), but heating the reaction mixt. (after Na NO<sub>2</sub> treatment) with HCl, neutralization, and extn. with Et<sub>2</sub>O-CaH<sub>4</sub> gave an unstated yield of I. A similar reaction with a-aminonicotine (18 g.) gave 207-8° (decompn.: from EtOH-Me<sub>2</sub>CO); perchlorate, m. 207-8° (decompn.: from EtOH-Me<sub>2</sub>CO); perchlorate, m.

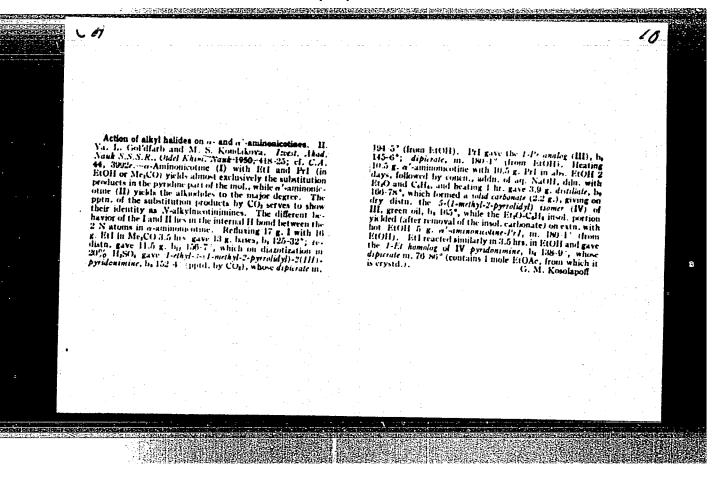
CA

product is unknown, but the product does not form a nikrosoderly. PhCll<sub>2</sub>I and a aminomicatine in EtOH give after standing overnight a high yield of the corresponding quaternary salt, m. 190° (from dil. EtOH); similar reaction with a aminonicotine yielded a complex mixt. of: a aminonicotine-PhCll<sub>4</sub>I, m. 200-2° (from EtOH), decomp. 194-5° (after drying in rateso), which with hot KOH soln, gave green-yellow I-densyl-3-(I-methyl-2-pyrelidyl). 7-pyrolaniminar-PhCll<sub>4</sub>I (bound at the pyrrolidyl N), m. 173-4° (III), and a aminonicotine-PhCll<sub>4</sub>I (bound at the pyridine N), m. 166° (from EtOH-Et<sub>1</sub>O); the latter with KOH yields I-densyl-3-(I-methyl-2-pyrolidyl)-2-pyrolanimina, blentified by formation of a tolal rarbonale and diplerate; the diplerate of the toldbranylate m. 208-11' (from EtOH-McyCO). Heating 1-bensyl-3-(I-methyl-2-pyrrolidyl)-2-pyrrolonimine with PhCll<sub>4</sub>I in McOH I hr. gave the corresponding iodobensylate (bound at the pyrrolidyl N), m. 174°. Heating a-aminonicotine-PhCll<sub>4</sub>I with PhCll<sub>4</sub>I in McOH gave III (after treatment with KOH), and the III salt of the starting material, m. 207°. Heating a-aminonicotine-PhCll<sub>4</sub>I, m. 156°, identical with that described above; its III salt, m. 206-7°, is also obtainable from 1-bensyl-3-(1-methyl-2-pyrrolidyl)-2-pyrrolonimine carbonate and HI. The sepin. of pyridonimine derives from isomeric aminonicotine derives. Is best performed by treatment with CO<sub>2</sub>, which yields an insol. carbonate from the former class. Substitution of PhCH<sub>2</sub>Cl for PhCH<sub>4</sub>I leads to a higher degree of substitution on the pyrrolidyl N tatom.

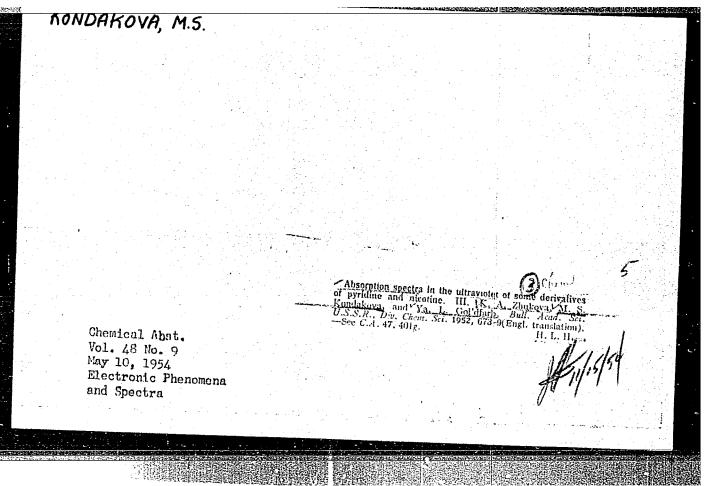
tion gave AcOH and (COH); thus the primary chloride must have the structure L. Sautene (from Siberian pipe

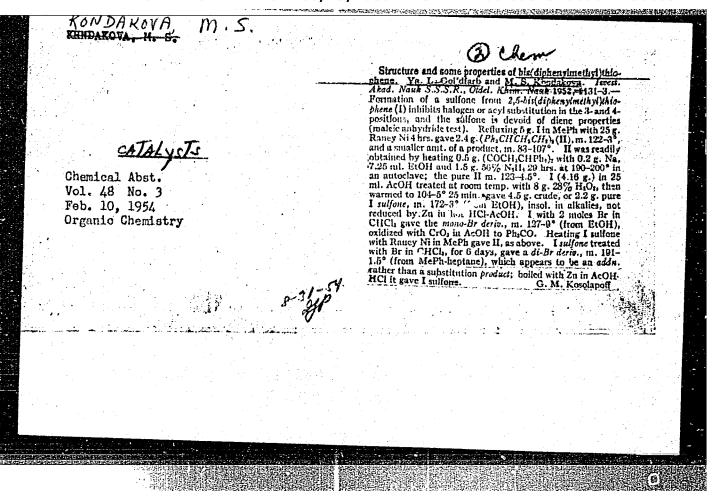
oil) (211.5 g.), b<sub>11</sub> 35-7°, d<sub>2</sub>° 0.8640, n<sub>3</sub>° 1.46609, gave under similar conditions of chlorination 102 g. satd. di-likelide, C<sub>1</sub>H<sub>11</sub>Cl<sub>1</sub>, m. 88-02°, and 37 g. monochloride, C<sub>4</sub>H<sub>11</sub>Cl<sub>2</sub>, b<sub>4</sub>0°, b. 105-7° (decoupe.), m. 50-8°, contg. 20.1% allylic Cl<sub>2</sub> which on oxidation with KMnO<sub>4</sub> gave HCO<sub>3</sub>H and the keto acid, C<sub>4</sub>H<sub>10</sub>O<sub>4</sub>, previously described by Semmler (C..1. 2, 1139), while oxonolysis gave CH<sub>2</sub>O. Hence the primary chlorination product has the structure II. Thus in both monochlorides the double bond had been transposed, which confirms the theoretical considerations

given in Part I. V. Reaction of chlorine with \$\Delta^\*-carene. D. Tishchenko and \$A\$. Khovanskaya. \$\Delta^\* 0.8028, ag 1.4735 (autroide, m. 116\*), was chlorinated as described previously with ice cooling; even at 1.5-2 mm. some decompn. took place on distin. of the products, but at 0.65 mm. distin. was satisfactor?. The primary product (main reaction occurring to the extent of \$\text{Ri-\$\delta^\*\circ}\$ amonochloride with transposed double bond, \$\overline{3}\$-chloro-\$\delta^\*\circ\circ}\$ as monochloride with transposed double bond, \$\overline{3}\$-chloro-\$\delta^\*\circ\circ}\$ of the taid, \$\delta^\*\circ\$ derive, which could not be satisfactorily distd. or isolated in pure state, but the product was liquid, contrary to the assumption of crystallinity of all such substances. The monochloride contains 21.2% mobile, allylic Cl. and on ozonolysis gives a chloroketo aldehyde, \$Call\_{10}\delta Cl.\$ b. 67\delta^\*\$ (bath temp.) in a mot. still, \$d^\*\_1\$ 1.473, at 1.4995, while oxidation with KMnO, gave cit-varenic acid, m. 174-5\delta\$ (isolated as the \$A\_0\$ or \$M\_1\$, tall), also obtained from the original carene. The crude dichloride with Os gave, on treatment with \$H\_0\$, an unstated amt. of fairly pure dickloride, \$\begin{array}{c} \text{Cull\_{10}Cl.} \text{Cl.} \text{The results again confirm the theory advanced in Part I (lee, cit.).} \end{array}



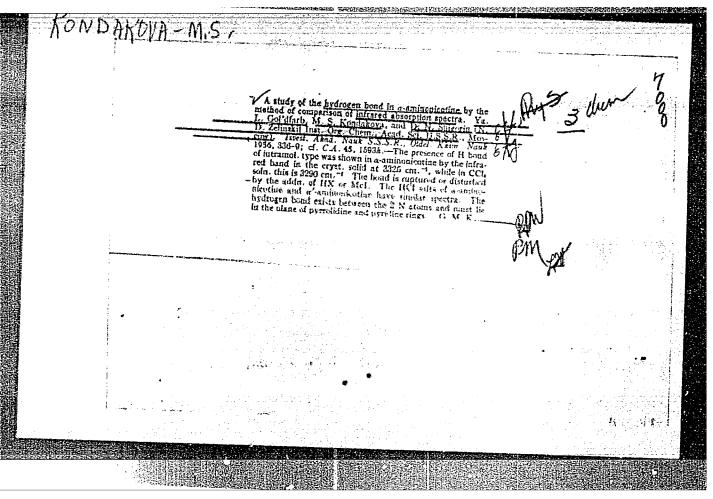
		[435]	8	AL SOLUTION OF THE PARTY OF THE	H		8
		bromoditydronipotyrine structure. Action of MeI on III yielded 6-bromo-2-dimethylsminomethyl-1, 2-di- Mydro-1, 8-maphthyridine (IV). With 2d mol of MeI. IV-formed iodomethylate (V). With Hofmann fission V yielded trimethylamine and 2-methyl-6-bromo-1, 8- namphthyridine.	Osas / chej mi o 61-7		"Is Ak Hour SSSR, Otdel Khim Hour" No 5, pp 610-619	Cyclization of Metanicotine Derivatives, ys. L. Gel'afarb, M. S. Kondakova, Inst of Org Chem, Acad Sei Ussa	S
		1000000		1,8	Heuk	* 7 i	
				en de la	899	. g	3
		<b>####</b>	- Alimiotas (Conta)	rtudy of intramed ring-closing of aminometanine derive, prepd 5-brome-2-aminomicotine (I). on of N-brome-5-brome-2-aminomicotine (I). on of N-brome-5-methylamine-4-butenyl)-dine(II). Action of alkali on II yielded eric mixt of 6-brome-2-methylaminomethyl-1, 2 dro-1,8-maphthyridine (III) and base (IV) with	я ,	<b>2</b> 1	
				11 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	¥de]	T T T T T T T T T T T T T T T T T T T	
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		5 2 3 E		base at an	8	P	
		on yiii	Se	e (1)	.u .g	# <b>#</b>	•
	3		30/d 5T	y) will be (1)	<u>6</u> 10		8
195 <b>T2</b> 2	195722	O TO THE S	195122 Sep/oct 51	EN BUR	)- <u>61</u>	AC L	8ep/oct 51
4	The second of th	4	Maria III		•		H

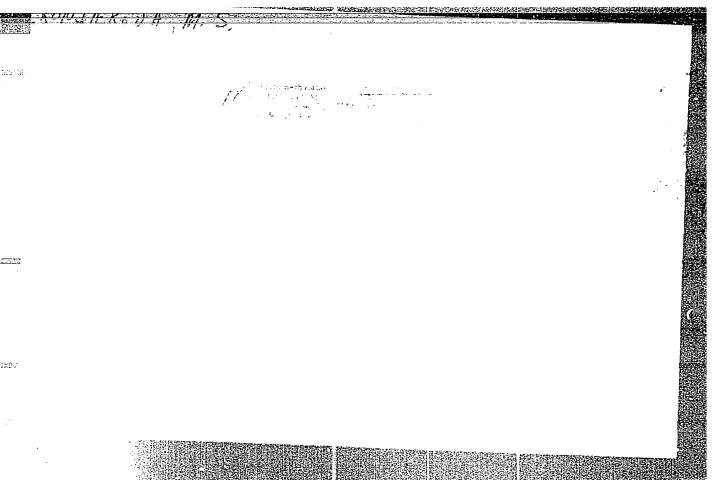


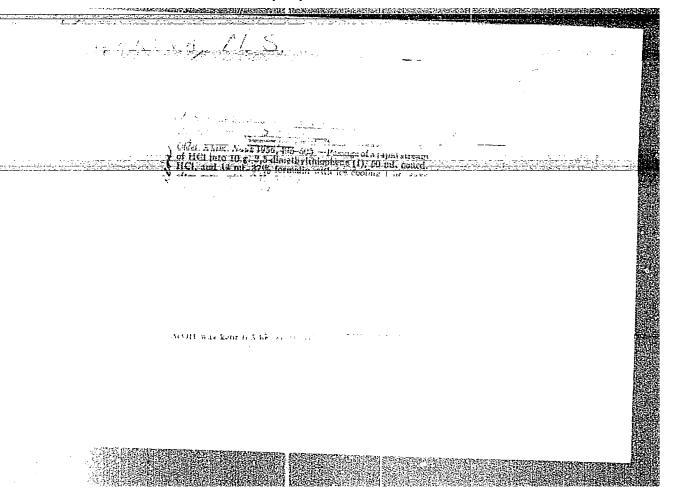


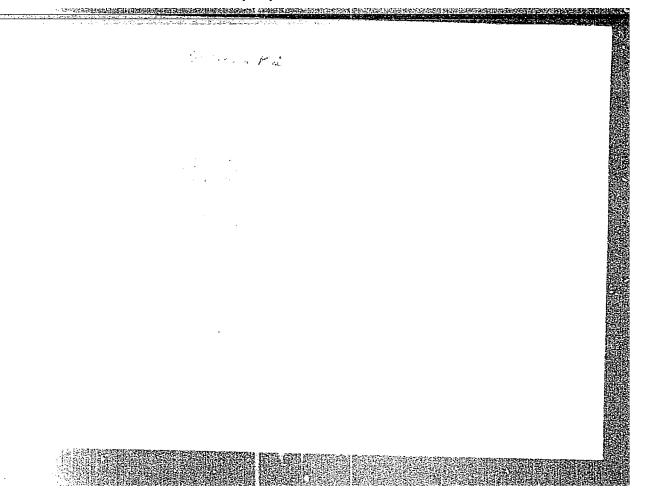
- 1. KONDAKOVA M.S., GOL'DEARB YA.L.
- 2. USSR (600)
- 4. Thiophene
- 7. Structure and some properties of dibenzohydrylthiophene, Izv, AN SSSR. Otd. KHIM. nauk no.6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, unclass.

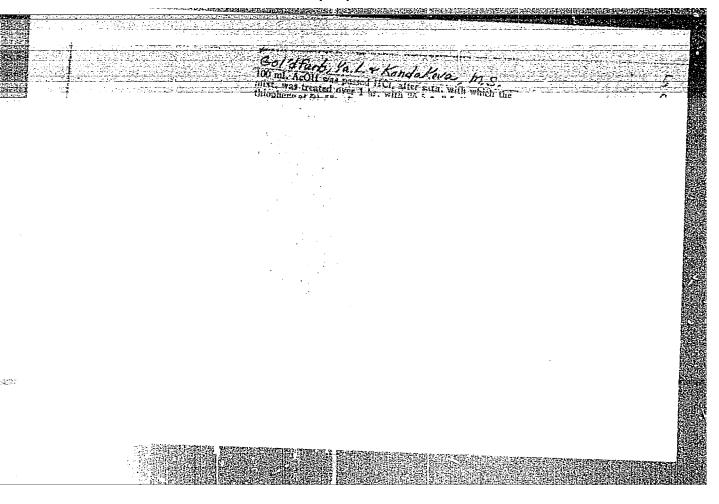


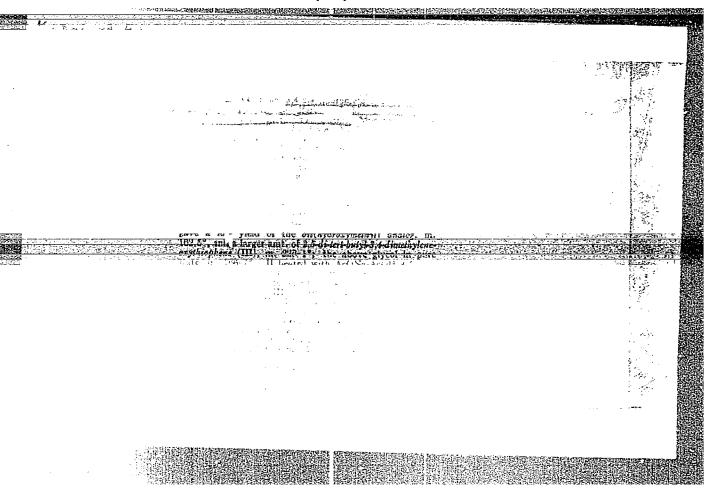






APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824130009-4"





AUTHORS:

Kondakova, M. S., Gol'dfarb, Ya.L.

62-58-5-10/27

TITLE:

Synthesis of Some Bifunctional Derivatives of 2,5-Dimethylthiophen (Sintez nekotorykh bifunctsional nykh proizvodnykh iz 2,5-dimetiltiofena)

PERIODICAL:

Izvestiya Akademii Nauk SSSR Otdeleniye Khimicheskikh Nauk, Hr 5, pp. 590 - 599 (USSR) - 448

ABSTRACT:

Rather substantial quantities of 2,5-dimethylthiophen (Reference 1) are found in sulfurous compounds which are formed due to the decomposition (heat-decomposition) of Kashpir-slate. It was of interest to investigate the possibility of synthetization of simple bifunctional derivatives. 3,4-bis-(methyl--chloride)-2,5-diomethylthiophen was used for obtaining a synthesis of the bifunctional derivatives of 2,5-dimethylthiophen. 3,4-bis-(acetoxymethyl)-2,5-dimethylthiophen, 3,4-bis(oxymethyl)-2,5-dimethylthiophen, 3,4-bis-(cyanomethyl)-2,5-dimethylthiophen, 3,4-bis-(ethoxymethyl)-2,5-dimethylthiophen, 3,4-bis-(carboxymethyl)-2,5 dimethylthiophen (see formulae II to VI) were obtained by the action of corresponding reagents on 3,4-bis-(methyl-chloride)-2,5-dimethylthiophen. No symmetric

Card 1/3

Synthesis of Some Bifunctional Derivatives of 2,5-Dimethylthiophen

62-59-5-10/27

diamine, but 3-amino-methyl-4-methylaminomethyl-2,5-dimethyl-thiophen was obtained by means of the hydrolisis of hexamin-salt (formed from 3,4-bis-(methyl-chloride)-2,5-dimethylthiophen and hexamethylene-tetramine). A compound of the structure  $^{\rm C}_{11}{}^{\rm H}_{16}{}^{\rm N}_{2}{}^{\rm OS}$  corresponding to the formula

Card 2/3

is formed as stereochemical product with the formation of diamine. There are 2 figures and 14 references, 2 of which are Soviet.

Synthesis of Some Bifunctional Derivatives of 2,5-Dimethylthiophen

62-58-5-10/27

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute for Organic Chemistry imeni N. D. Ze-

linskiy AS USSR)

SUBMITTED:

December 10, 1956

1. Cyclic compounds--Synthesis

Card 3/3

5.3610

77359

SOV/79-30-1-20/78

AUTHORS:

Gol'dfarb, Ya. L., Kondakova, M. S.

TITLE:

Synthesis of Some ( eta -Chloroethyl)amino Derivatives of Thiophene

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 102-

ABSTRACT:

Several anticancerous compounds,  $\beta$ -chloroethylamino derivatives of thiophene, were synthesized from 3-chloromethyl- and 3,4-bis(chloromethyl)-2,5-dimethylthiophene. Reaction of chloromethylated thiophenes with 3, 3 -dichlorodiethylamine yielded compounds I, mp 171-172°, II, mp 183-185°, and III, mp 176-178°.

Card 1/5

Synthesis of Some (  $\beta$  -Chloroethyl)amino Derivatives of Thiophene

77359 SOV/79-30-1-20/78

 $\begin{array}{c|c} (CICH_2CH_2)_8N-H_2C & CH_2N(CH_2CH_2CI)_2 \\ \hline \\ CH_3-CH_3 & CH_3 - CH_2 \\ \hline \\ (III) & CH_2CH_2CI)_8 \\ \hline \\ (IV) & CH_2CH_2CI)_2 \\ \hline \\ (IV) & CH_2CH$ 

In order to find the effect of the displacement of diffeom a to position on physiological properties of compound IV, yield 23.6%, mp 102-103°, the latter was synthesized from compound VIII, bp 186-190° (7 mm), nD 1.5497.

 $\langle S \rangle$  - GH<sub>2</sub>N(GH<sub>2</sub>GH<sub>2</sub>OH)<sub>2</sub> (VIII)

Card 2/5

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Synthesis of Some (  $\beta$  -Chloroethyl)amino Derivatives of Thiophene

77359 SOV/79-30-1-20/78

Compound VIII was synthesized from a mixture of 2-thiophenealdehyde, diethanolamine, and formic acid by heating. Reaction of 3-chloromethyl-2,5-dimethylthiophene with diethanolamine yielded compound VI, bp 184-197° (6 mm). This compound can be also prepared in the following way:

Card 3/5

The starting base for synthesis of compound VII, bp 2140 (2 mm), was obtained by the reaction of ethylene oxide and 3-aminomethyl-4-methylaminomethyl-2,5-dimethylthiophene.

Synthesis of Some ( $\beta$ -Chloroethyl)amino Derivatives of Thiophene

77359 SOV/79-30-1-20/78

Card 4/5

GOL'DFARB, Ya.L.; KONDAKOVA, M.S.

Synthesis of bifunctional derivatives from 2, 5-dimethylthiophene. Report No.2: Action of amines on 3, 4-bis(chloromethyl)-2, 5-dimethylthiophene. Izv.AN SSSR Otd.khim.nauk no.3:501-513 Mr 161.

(MIRA 14:4)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR. (Thiophene) (Amines)

COLUMN TO THE STATE OF THE STATE OF STATE OF THE STATE OF

GOL'DFARB, Ya.L.; KONDAKOVA, M.S.; KRASNYANSKAYA, E.A.; VINOGRADOVA, M.A.

Synthesis of condensed systems based on 3,4-bis-(Chloromethyl)-2,5-dimethylthiophene with eight-, ten-, and fifteen-membered rings. Izv. AN SSSR Ser. khim. no.12:2182-2187 D \*64 (MIRA 18:1)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

SILAYEV, A.B.; NESMEYANOV, An.N.; FEDOSETEV, V.M.; KONDAKOVA, N.V.

Synthesis of & , /> -dimercaptopropionoic acid, containing radioactive sulphur. Zhur.ob,khim. 27 no.10:2871-2873 0 '57.

(MIRA 11:4)

1.Moskovskiy gosudarstvennyy universitet.

(Propionoic acid) (Tracers (Biology))

KONDAKOVA N.V.

COUNTRY

: USSR

CATEGORY

: General Biology.

В

ABS. JOUR.

Physical and Chemical Biology. RZhBiol., No. 5, 1959, No. 18963

AUTHOR

: Lydus, L. Kh.; Kondakova, N.V.; Otarova, G. K.

INST. TITLE

: The Mechanism of the "Oxygen Effect" in

Radiobiology.

ORIG. PUB. : Biofizika, 1958, 3, No 2, 215-219

ABSTRACT

: It was shown that in a 4 mg/ml concentration, a myocin (I) solution which was freed from air and subjected to an X-ray irradiation of 50,000 r in vacuum cuvettes, almost completely preserved its ATP (adenosine triphosphate) activity which may also be determined in anaerobic conditions by incubation with ATP, while irradiation with the very same dosage in aerobic condition leads to a 48 percent

inactivation of I. After sir is admitted into cuvettes which contain the irradiated solution.

Card:

1/3

COURTRY USSR

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824130009-4"

ABS . JOUR.

: RZhBiol., No.

1959, ilo.

AUTHOR

III3T.

TITL

ORIG. PUB.

APSTRACT

: (I) activity decreases rapidly ("oxygen leap"), although to a somewhat lesser degree then when irradiated under aerobic conditions. Analogous results were obtained when the (I) solution was irradiated by 25,000 r which usually leads to a 30 percent inactivation. The authors assume that the absorption of energy during anaerobic irradiation causes stimulation of (I) molecules ("preserved injury") only, and inactivation occurs under the influence of

CARD:

2/3

Mechanism of photodynamic effects. Biofizika 3 no.5:562-567 '58

1. Institut biologicheskoy fiziki AN SSSR, Moskva
(LIGHT, effects,
photodynamic eff. on biol. objects in presence
of stein (Rus))

GANASSI, Ye.E.; KONDAKOVA, N.V.; OTAROVA, G.K.; EYDUS, L.Kh.

Common features of the manifestation of radiation aftereffect in proteins of different structure; comparative investigation of myosin and pepsin. Radiobiologiia 1 no.1:14-22 '61; (MIRA14:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. (GAMMA RAYS—PHYSIOLOGICAL EFFECT) (MYCSIN)

	KOTUDI-I KOVA, IV. V.  Latent Lesions During Radiation-Induced Inactivation of Enzymes  L. Kh. Edus, E. E. Ganassi and N. V. Kondakova
	gradiation produces in the same protein molecules latent lesions of two kinds, one of which causes the machina due to the combined after-effects in irradiated solutions of myosin is a large proportion of the total recustion. The "thermal" after-effect in myosin and pepsin enzymes of different nature and function is caused by the solution. The method of electron paramagnetic resonance of which the total recustion. The degree of the unpaired electron paramagnetic resonance of whether the enzyme was irradiated.
	impaired electrons with a long lifetime after irradiation in solution. These unyme molecules the presence of the radiation after-effect, and they disappear when the irradiated solutions are gently heated; at the same left to thermal after-effect, and they disappear when the irradiated solutions are gently heated; at the same lifet to The same latent lesions as those after y-irradiation were observed in the study of the photodynamic effect (PDE) of the 'thermal' after-effect, the long lifetime of unpaired electrons, the form of the electron paramagnetic resunance formation of latent lesions due to the PDE and the PDE and the lifetime (PDE).
	is the formation of enzymes by ionizing radiation and by PDE, suggesting two stages, one of which formation of long-lived or short-lived latent lesions of the macromolecules.
	report presented at the 2nd Intl. Congress of Radiation Research, Herrogate/Yorkshire, Gt. Brit. 5-11 Aug 1962
•	

GANASSI, Ye.E.; ZARKH, Ye.N.; KONDAKOVA, N.V.; FYDUS, L.Kh.

Physicochemical study of the mechanism of enzyme inactivation.

Report No.1. Thermal inactivation of myosin and pepsin,
intact and following irradiation. Biofizika 10 no.6:966-973 '65.

(MIRA 19:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. Submitted April 29, 1965.

KONDAKEVA, JAK

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M

Olivorial and a commence of personal contraction of the personal personal contraction of the personal contraction

Abs Jour : Ref Zhur Biol., No 12, 1958, 53710

Author : Kondakob, N.A., Kondakova, O.A.
Inst : -

Title : A New Flax Variety, T-5

Orig Pub : Len i monoplya, 1957, No 12, 22-24

Abstract : Variety testing conducted in 1953-1954 by the Tomsk

Regional Selection Station showed that with regard to yield and the quality of the fibers, T-5 surpasses the Svetoch, Stakhanovets, Pobeditel' and Pryadil'shchik varieties, and is not inferior to them with regard to the yield of the seeds. This variety is resistant to damping off, has tall stems and is classed as a medium variety. On a production scale, it is recommended to sow it at the rate of 90-100 kg/ha. This variety was obtained by crossing varieties I-2 and B-1143 and sub-

sequently selecting. -- A.M. Smirnov

Card 1/1

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824130009-4"

(0.6000 S/124/61/000/010/050/056 D251/D301

AUTHOR: Kondakova, O.N.

TITLE: Experimental verification of the calculation of a

cylindrical shell of mean thickness

PERIODICAL: Referativnyy zhurnal. Mekhanika, no. 10, 1961, 7, abstract 10 V50 (Nauchno-tekhn. inform. byul. Lenin-

gr. politekhn. in-t, 1960, no. 4, 114-116)

TEXT: A description is given of the experimental investigation of the question of the degree of accuracy with which the actual stressed condition of shells with the ratio of thickness to the radius of the mean layer lying in the region 1/15 - 1/3.7, is described according to the ordinary theory of the bending of shells and also according to the theory which considers displacements due to the action of transverse forces. The case of axisymmetric deformation is considered. It is shown that the ordinary theory gives a considerable divergence from the experimental value of the stress

X

Experimental verification...

S/124/61/000/010/050/056 D251/D301

Card 2/2

ROHDAHOVA, O. N.

"Investigation of Bending of Bars and Plates Taking Into Account Shear Deformations from Transverse Forces." Cand Tech Sci, Leningrad Polytechnic Inst, Leningrad, 1953. Dissertation (Referativnyy Zhurnal-Mekhanika Moscow, Feb 54)

SO: SUM 186, 19 Aug 1954

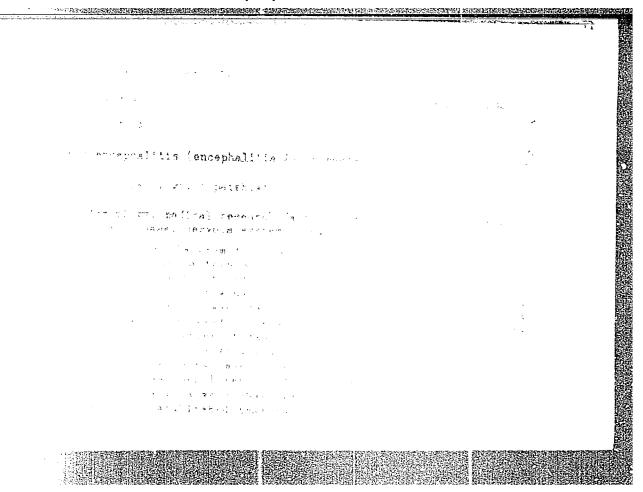
Bend analysis of thin elastic plates with layers of increased yielding capacity. Trudy LPI no.197:16-22 '58.

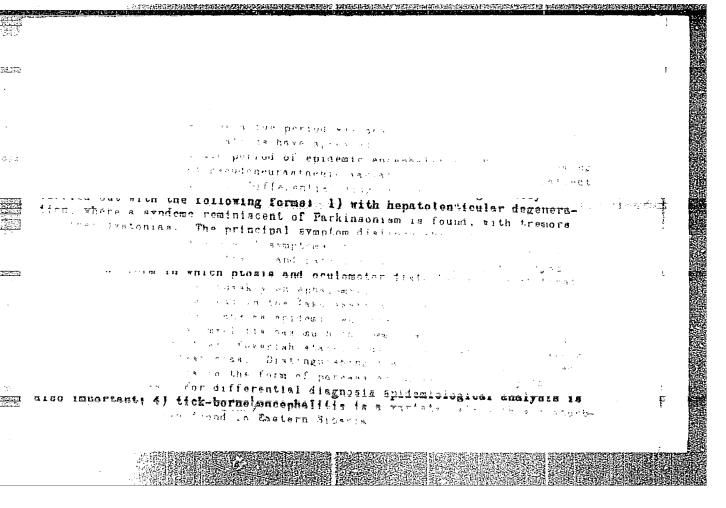
(Elastic plates and shells)

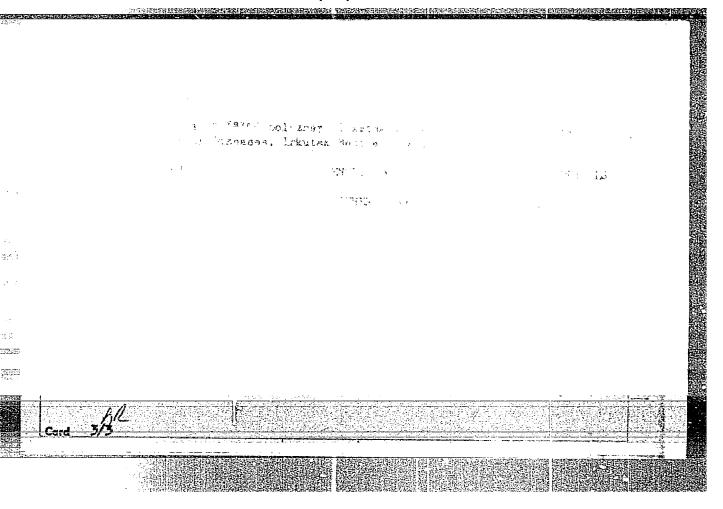
KOLYASEV, P. Ye., doktor sel'skokhozyaystvennykh nauk; RASTEGAYEV, W.S., kandidat sel'skokhozyaystvennykh nauk; KOMDAKOVA, R.S.

Mechanism of wetting a coarse organomineral granule and its effectiveness. Dokl.Akad.sel'khoz. 21 no.4:30-36 '56. (MLRA 9:8)

 Agrofizicheskiy nauchno-issledovatel'skiy institut. Predstavlena akademikom A.F. Ioffe. (Fertilizers and manures) (Soil moisture)

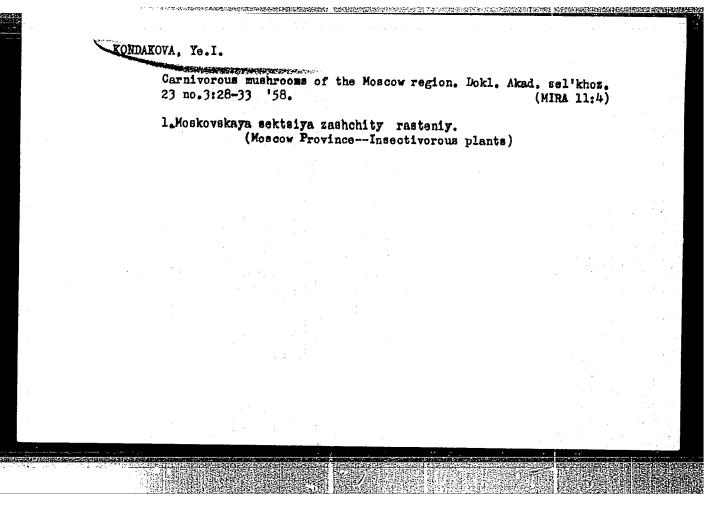






KONDAKOVA, V.Ye., Cand Biol Sci — (diss) "Effect of ecological factors on the voltinius of the oak silk worm in the central belt of the USSR." Kiev, 1959, 9 pp (Acad Sci UkSSR. Inst of Zoology) 150 copies (KL, 35-59, 113)

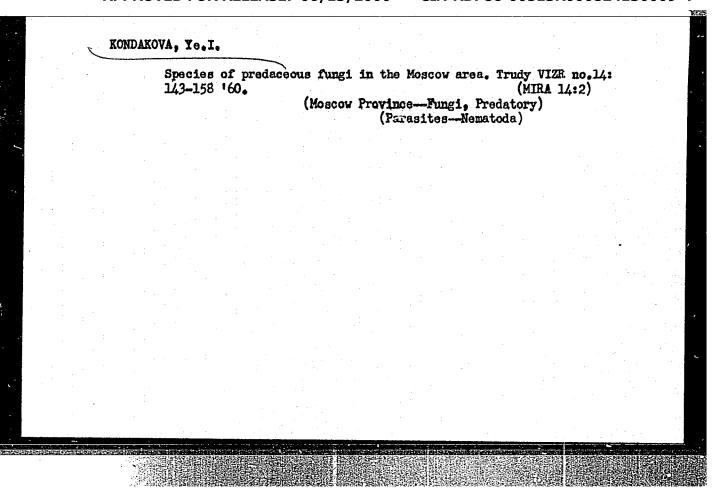
- 28 -



GORLENKO, M.V.; KONDAKOVA, Ye.I.; PLETNEVA, O.I.

Biology of predaceous fungi. Biul.MOIP. Otd.biol. 64 no.5:
89-97 S-0 '59. (MIRA 13:6)

KONDAKOVA, Ye. I., Cand Biol Sci -- (diss) "Predatory fungi in the Moscow area and the possibility of employing them in the battle against gallic nematodes in covered locations." Moscow, 1960. 14 pp; (Moscow Order of Lenin and Order of Labor Red Banner State Univ im Lomonosov); 110 copies; price not given; (KL, 51-60, 117)



KONDAKOVA-BARLAMOVA, L.P.

。 一定的自然的主义是是一个人,就是是一个人,他们就是一个人,他们就是一个人,他们就是一个人,他们就是一个人,他们就是一个人,他们就是一个人,他们就是一个人,他们

Hardening the student in school and at homs. Trudy 1-go MMI 5:206-209 159. (MIRA 13:8)

1. Iz kafedry shkol'noy gigiyeny (zav. - dotsent M.D. Bol'-shakova) 1-go Moskovskogo ordena Lenina meditsinskogo instituta im. I.M. Sechenova.

(PHYSICAL EDUCATION FOR CHILDREN)

KOMDAKOVA-BARLAMOVA, L.P., assistent; KARDASHERKO, V.H., assistent

Conditioning children's bodies as part of the daily regimen in boarding schools. Gig.i san. 25 no.1:100-104 Ja \*60.

(MIRA 13:5)

1. Iz kafedry gigiyeny detey i podrostkov I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova. (GYMMASTICS)

BOL'SHAKOVA, M.D.; KARDASHENKO, V.N.; KONDAKOVA-GARLAMOVA, L.P.; STROMSKAYA, Ye.F. (Moskva)

Physical development of children in the city of Orel (1943-1959).

Sov.zdrav. 20 no.5:9-13 '61.
(OREL—CHILDREN—GROWTH)

KOHDAKSAZOV, N.A.

Problem of idiosyncrasy to antibacterial preparations. Probl. tuberk.,
Noskva no. 1:65-66 Jan-Feb 1953. (GLML 24:2)

1. Of Otdykh Tuberculosis Sanatorium.

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## KONDAKSAZOV, N.A.

Obturational atelectasis as a result of tuberculous infection of the bronchi [with summary in French]. Probl.tub. 36 no.2:103-104-158 (MIRA 11:5)

1. Glavnyy vrach tuberkuleznogo sanatoriya "Otdykh"
(ATELECTASIS, etiol. and pathogen.
bronchial tuberc., ther. (Rus))
(TUBERCULOSIS, PULMONARY, compl.
atelectasis, ther. (Rus))

## SKALINSKY, E.I.; KONDALKNKO, V.F.

Electron microscopic studies of the chick chorio-allantois during embryogenesis. Acta morph. acad. sci. Hung. 12 no.3: 247-259 \*64

1. Bepartment of Electron Microscopy, Laboratory of Viral Preparations (Head: Prof. N.V.Likhachev), State Institute for Research and Testing of Veterinary Products, Moscow.

## KONDALENKO, V.F.

Use of lead nitrate to bring out the intracellular reticular apparatus. Biul. eksp.biol.med. 47 no.1:121 Ja 159. (MEA 12:3).

1. Iz kafedry gistologii (zav. - prof. I.F. Ivanov) Moskovskoy veterinarnoy akademii. Predstavlena deystivitel'nym chlenom AMN SSSR V.N. Chernigovskim.

(IMAD WITRATE) (STAINS AND STAINING (MICROSCOPY))

SKALINSKIY, Ye.I.; KONDALENKO, V.F.

Electron microscopic study of the chorioallantoic membrane in the chick embryo. Arkh. anat., gist. i embr. 44 no.4:44-47 Ap 163. (MIRA 17:6)

1. Otdel ekektronnoy mikroskopii (zav. lab. deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I. Lenina prof. N.V. Likhachev) Gosudarstvennogo nauchno-kontrol'-nogo instituta veterinarnykh preparatov Ministerstva sel'skogo khozyaystva SSSR, Moskva. Adres avtora: Moskva, D-22, Zvenigorodskoye shosse, 5. Gosudarstvennyy nauchno-konstrol'nyy institut veterinarnykh preparatov Ministerstva sel'skogo khozyaystva Soyuza SSR, Otdel elektronnoy mikroskopii.

KONDALEV, A. I. and MALINOVSKIY, B. N.

"Dynamic Flip-Flop & With Triode Transistors."

The authors describe a dynamic flip-flop using point-contact triode transsistors, discuss its circuit and provide experimental data on its performance under various operating conditions. There are no references.

voprosy vyschislitel'noy matematiki i tekhniki (problems in Computor Mathematics and Technique) Kiev, Izd-vo AM Ukr SSR, 1958, 97 pp. (Sbornik trudov, vyp 3)

This collecton of articles issured by the computor Center of Ukr SSR Acad Sci is intended for scientists and engineers in the field of computor mathematics and techniques. The collection is devoted to the programming of mathematical problems on electronic computers and to the design of units and components of these machines.

9,2560

82847 S/112/60/000/009/004/006

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1960, No. 9, p. 263,

AUTHORS:

Kondalev, A. I., Malinovskiy, B. N.

TITLE:

A Transistorized Dynamic Flip-Flop 16 A

PERIODICAL: Sb. tr. Vychisl, tsentra AS UkrSSR, 1958, No. 3, pp. 71-75

TEXT: The authors describe the circuit of a dynamic flip-flop consisting of a transistor and an inductance connected to the emitter circuit. In the initial state the transistor is blocked by a bias. Negative master pulses enter the base of the transistor, the amplitude of these pulses being too low to open the transistor. If one positive pulse is supplied to the circuit input, the transistor is opened and current is originated in the emitter circuit. On account of the inertness of inductance, this current continues to flow up to the arrival of the following masterizing pulse which again opens the transistor. The excited state of the flip-flop corresponds to this, during which master pulses are passing the collector circuit. The following pulse being supplied

Card 1/2

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A Transistorized Dynamic Flip-Flop

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to the input, the transistor is blocked and the flip-flop returns to its initial state. There are 7 figures.

V

A. V. Sh.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

16(1),16(2)

AUTHOR:

Kondalev, A.I.

Period transferration and the contract of the

SOV/42-14-4-24/27

TITLE:

New Investigations on the Domain of Computer Mathematics and Techniques (According to the Data of the Conference of the Computing Center of the AS USSR)

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 4, pp 237-242(USSR)

ABSTRACT:

On December 1-3, 1958 a conference on computation mathematics and techniques took place in Kiyev. There were about 300 participators from Moscow, Leningrad, Minsk, Tbilisi, Riga, Baku, Yerevan, L'vov. Lectures of: V.M.Glushkov, L.N.Dashevskiy, A.I.Kondalev, S.B. Pogrebinskiy, Ye.A.Shkabara, Ye.L.Yushchenko, M.A.Kartsev, Yu.A.Lavrenyuk, K.S.Neslukhovskiy, V.A.Shamanskiy, V.N.Ostapenko, Yu.V.Blagoveshchenskiy, A.N.Kostovskiy, V.V.Ivanov, Ye.Ya.Remez, L.N.Karamzina, E.A.Chistova, V.G.Bodnarchuk, G.S. Khovanskiy, A.I.Khora, P.S.Bondarenko, V.S.Mikhalevich, D.M.Golenko, A.A.Alekseyev, N.Z.Shor, V.S.Korolyuk, Ye.L. Yushchenko, A.A.Letichevskiy, L.N.Ivanenko, Bratchikov, N.A.Kachanova, E.I.Arin', V.V.Umed'yan, S.Ya.Fitialov, N.A. Krinitskiy, V.N.Igolkin, M.N.Belkina, Gavrilenko, I.V.Lebedev, Yu.I.Sharapov, Z.S.Zorina, A.M.Samofalova, Ye.A.Shkabara, M.A.Kartsev, A.G. Kukharchuk, N.M.Protsenko, N.P.Brusentsov,

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New Investigations on the Domain of Computer Mathematics and Techniques (According to the Data of the Conference of the Computing Center of the AS USSR)

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M.N.Posnov, V.D.Rozenknop, L.M.Abalyshnikova, V.I.Dvortsina, S.B.Pogrebinskiy, G.A.Ososkov, V.G.Sragovich, Z.L.Rabinovich, K.S.Nesluknovskiy, Yu.A.Chernyshev, Ye.F.Berezhnaya, O.V.Bachin, A.Ya.Zubatenko, Z.V.Al'ferova, A.A.Spirin, B.I.Kal'nin, Yu.K. Cherevychnik, A.G.Shigin, O.K.Shcherbakov, Yu.M.Shamayev, A.I.Pirogov, Ye.I.Mamonov, V.D.Losev, A.G.Semenovskiy, V.I.Sokrut, L.Z.Zabludovskaya, Ye.L.Shkabara, Ye.L.Yushchenko, G.Ye.Pukhov, V.M.Samus', N.P.Khazankina, V.M.Bondarenko, L.A.Tel'ksnis, V.N.Ostapenko, and A.A.Yushchenko.
A collective report on the work of the conference shall be published soon (1 volume).

Card 2/2

# KONDALEV, A.I. [Kondaliev, A.I.]

Analysis of the performance of a diode capacitor memory system. Zbir. prats' z obchys. mat. i tekh. 2:60-76'61.

(Electronic calculating machines)
(Information storage and retrieval systems)

35211

9.7140 (also 1147, 1164, 2902)

S/696/61/002/000/009/009 D299/D302

AUTHORS:

Kendalyev. A.I. and Zubatenko, A.Ya.

TITLE:

Experimental diode-capacitor working memory (DCWM)

SOURCE

Akademiya nauk Ukrayins'koyi RSR. Obchyslyuval'nyy tsentr. Zbirnyk prats' z obchyslyuval'noyi matematyky i tekhniky.

v. 2, 1961, 105-110

TEXT: A memory device in corporating linear capacitors and diodes, was tested as a modified version of the working memory of the computer "Kyyiv". The working memory has to meet the following requirements: 1) Storing capacity—1023 binary 41—digit numbers; 2) circulating frequency— at least 100 kc; 3) the codes received by, and transmitted from, the working memory, are in the form of standard pulses (suitable for the computer). The autonomy principle, used in design of the computer Kyyiv, was also used in developing the control system of the DCWN. The connection is described between the DCWM and the other computer units. In order to test the operation of the diode-capacitor memory and to determine the characteristics of its control elements, an experimental modell for 16

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Card 1/3

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Experimental diode-capacitor ...

S/696/61/002/000/009/009 D299/D302

cight-digit numbers was constructed. The model incorporated the main DCWM controll units, as planned for the computer Kyyiv. The model had the following units: A (4-digit) address register, a (4-digit) address counter, a commutation unit, decoder, amplifier etc. The following problems could be investigated on the model: 1) the dependence of its operation on the diode characteristics; 2) the dependence of storing time on the parameters of the memory unit; 3) the effect of the displacement voltages and of the pulse amplitudes on its operation; 4) the dependence of the read-signal level on the parameters of the memory unit; 5) the influence of regeneration frequency on storing time; 6) the influence of temperature conditions on its operation. In selecting the diodes, 7 types were investigated. It was found that the diode A 1B (DIV) had the most convenient characteristics (R rev R dir = 28000). The storing time depends not only on the reverse resistance R but also on the capacitance C. An increase in displacement voltage led to a decrease in storing time. The maximum storing capacity was found to be 128 or 256 codes, with the given diede type. A temperature increase to +50 C, led to a lowering of

Card 2/3

S/696/61/003/000/003/011 D251/D304

9.7140 AUTHOR:

Kondalyev, A.I.

TITLE:

Transformer passive memory units

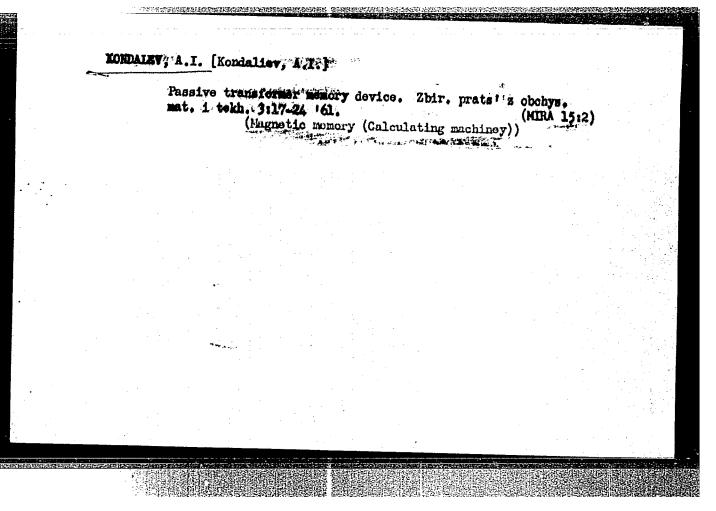
SOURCE:

Akademiya nauk Ukrayins'koyi RSR. Obchyslyuval'nyy tsentr. Zbirnyk prats' z obchyslyuval'noyi matematyky

i tekhniky, v. 3, 1961, 17 - 24

TEXT: A passive memory unit is defined as a one-way exchange of information from other units of a computer. A PMU must only yield information at the moment of applying the testing impulse, i.e. the memory cell of the PMU cannot have two stable states as in the static MU's and will not be useful for signal delay as in the dynamic MU's. The author states that transformer type memory cells, as used e.g. in the PMU of the 'Kyyiv' computer, are best with regard to expectancy, simplicity of construction, high working speed, small dimensions and stability. The construction and working of such a cell is described in detail, and typical oscillograms are given. There are 8 figures and 1 Soviet-bloc reference.

Card 1/1



KONDALLY, A.I. [Kondaliev, A.I.]; ZUBATENKO, A.Ya.

Experimental diode capacitor memory system. Zbir. prats' z obchys. mat. i tekh. 2:105-110 '61. (MIRA 15:2) (Electronic calculating machines) (Information storage and retrieval systems)

44929

9.7300

8/745/62/000/004/004 D201/D308

AUTHOR:

Kondalev, A. I.

TITLE:

An analog-to-digital pulse-weighting converter

SOURCE:

Moscow. Enzhenerno-fizicheskiy institut. Vychislitel'naya tekhnika, no. 4, 1962, 39-53

The author considers a possible version of an analog-to-digital converter. Its main feature is the mechanism of obtaining and of addition of reference voltage pulses required for the conversion, based on the principle of weighting, of a continuously varying voltage by means of reference pulses of short duration. The circuit diagrams of the converter and its time-operation diagram are given. Conclusion: the pulse weighting method in analog-digital conversion has the following advantages: 1. High conversion speeds are obtained with comparatively low frequencies of timing pulses. 2. Simple circuitry gives greater accuracy than electronic converters. 3. It is possible to control, within narrow limits, a wide range of continuous varying voltages of opposite polarity. 4. The converter

Card 1/2

An analog-to-digital ... S/745/62/000/004/004/007

may work in conjunction with nearly every type of transducer. 5. No W gures.

Card 2/2

# KONDALEV, A.I., kand.tekhn.nauk

Universal converter of the information presentation. Avtom.i prib. no.1:27-32 Ja-Mr 163. (MIRA 16:3)

1. Institut kibernetiki AN UkrSSR.
(Electronic computers)

ACCESSION NR: AP4020316

S/0302/64/000/001/0037/0040

AUTHOR: Kandaley, A. I. (Candidate of Technical Sciences); Yudin, Yu. S.

TITLE: High-speed device for determining polarity and comparing voltages with high precision

SOURCE: Avtomatika i priborostroyeniye, no. 1, 1964, 37-40

TOPIC TAGS: polarity detector, instantaneous polarity detector, voltage difference measuring device, difference millivoltmeter, transistorized difference millivoltmeter

ABSTRACT: Conventional Schmitt's triggers have a low sensitivity and, therefore, are unsuitable for measuring small signals; also, they are subject to drifts and ambient-temperature influence. A new transistorized device is largely free from the above shortcomings and can determine instantaneous polarity of a-c voltages from a few millivolts to a few tens of volts; also, it can measure the

Card 1/主

ACCESSION NR: AP4020316

difference between two voltages within the same range. The device (see Enclosure 1) comprises: a balanced differential amplifier,  $T_1$ ,  $T_2$ ,  $T_3$ ; two amplifier-inverters,  $T_4$ ,  $T_5$ ; two separating amplifier-inverters,  $T_6$ ,  $T_7$ ; two comparator diodes with blocking oscillators,  $D_1$ ,  $D_2$ ,  $D_3$ ,  $D_4$ ,  $D_4$ , two output pulsed forming amplifiers (damping diodes  $D_1$ ,  $D_2$ , transistors  $D_1$ ,  $D_2$ ,  $D_3$ ,  $D_4$ ,  $D_4$ ,  $D_4$ ,  $D_4$ ,  $D_5$ ,  $D_4$ ,  $D_5$ ,  $D_7$ ,  $D_8$ 

ASSOCIATION: Institut kibernetiki AN UkrSSR (Institute of Cybernetics, AN UkrSSR)

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Card 2/3

KONDALEV, Andrey Ivanovich; IIM FEYEV, B.B., doktor tekhn. nauk, otv. red.; YEVSEYENKO. MISYURENKO, I.V., red.

[Data form converters] Preobrazovateli formy informatsii. Kiev, Naukova dumka, 1965. 175 p. (MIRA 18:8)

KONDALEV, A.I., kand. tekhn. nauk

Analog-to-digital converter with a passive coding memory device.
Avtom. 1 prib. no.2:32-34 Ap-Je '63. (MIRA 18:8)

1. Institut kibernetiki AN UkrSSR.

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AUTHOR: Kondolou A 7 (7	
AUTHOR: Kondalev, A. I. (Candidate of technical sciences); Semeshko, Ye. A.;	
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TITLE: Analog-to-digital converter for magnetic-tape signal coding and entry into a	
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SOURCE: Avtomatika i priborostroyeniye, no. 4, 1965, 23-25	· .
TOPIC TAGS: analog digital converter, analog digital encoder	
thomas and digital encoder.	
ABSTRACT: The <u>Institute of Cybernetics of the Academy of Sciences USSR</u> has developed	
a printed-circuit transistorized A/D converter with the following characteristics:	۰
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case of nonagreement sends pulses to one of two inputs of the reversible counter. The	
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ACC NR: AN5025457 Monograph	UR/
Kondalev, Andrey Ivanovich	#4.
Code consentant (Prochamental	
Code converters (Preobrazovateli formy informatsii) 1965. 175 p. illus., biblio. (At head of title: Institut kibernetiki) 3/400 contor printed	
Institut kibernetiki) 3400 copies printed. Series	note: Seriya po novoy tekhnike.
TOPIC TAGS: information processing, analog digital	
PURPOSE AND COVERACE: This book is intended for eng the field of analog-digital technology. Modern me digital-to-analog information conversion are covern grams and the technical characteristics of several verters, developed at the Institute of Cybernetics Ukr6SR are dealt with in detail. A brief general these devices is also given.	ineers and scientists working in thods of <u>analog-to-digital</u> and ed. Structural-functional diatypes of analog-digital con-
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4. Polarity discriminators of continuously varying voltages 117	
Ch. V. Methods of coding sign-changing voltages - 126	
Ch. VI. Analog-digital converter with out-of-sequence comparison principle based on	
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L 38189-66 EWT(d)/EWP(1) IJP(c) GG/BC/BB/GD ACC NR: AT6017036 SOURCE CODE: UR/0000/65/000/000/0140/0145 AUTHOR: Kondalev, A. I. ORG: none TITLE: An analog-to-digital servo-type converter SOURCE: AN UkrSSR. Kiberneticheskaya tekhnika (Cybernetic techniques). Kiev, Naukova dumka 1965, 140-145 TOPIC TAGS: servosystem, analog to digital converter, logic element, pulse coding ABSTRACT: The article deals with a class of servo-converter which may be satisfactorily used in single-channel analog-to-digital conversion systems. The specific type considered employs a method based on the coding of a continuous quantity and uses a twin-channel generator null-organ for signal comparison. The principal components of this converter are described. These include an n-place reverse counter consisting of n trigger cells and a logic unit, as well as a reference voltage unit. A block diagram of the converter is given and the operation of the different components is briefly described. Carry-over provision is incorporated in this converter and reliability is high. Current stabilizers are also employed for comparison of the continuous voltage with the standard. The purpose and special fea-Card 1/2 Card

38190-66 EWT(d)/EWP(1) IJP(a) GG/BB/GD ACC NR: AT6017037 SOURCE CODE: UR/0000/65/000/000/0155/0164 AUTHOR: Kondalev, A. I. ORG: none TITLE: A position-comparing converter with a variable number of strokes SOURCE: AN UkrSSR. Kiberneticheskaya tekhnika (Cybernetic techniques). Kiev, Naukova dumka, 1965, 155-164 TOPIC TAGS: analog digital converter, computer coding, sweet cyclic coding, circuit design, computer theory ABSTRACT: Any binary coding position-comparing converter requires a constant number of stroke pulses, equal to the position of the code n, in order to execute a complete coding cycle. The author discusses the possibility of reducing the number of strokes while retaining the former positioning of the codes. An investigation is made into the operational circuit of an analog-to-digital converter having a variable number of strokes. The minimum cycle of this converter comprises one stroke, the maximum cycle comprises n strokes. Depending on the relationship of the voltages being compared (continuous U(t) and standard Ust) in the converter, it is possible to complete the cycle on any stroke: the first, the second, ..., (n-1)-th, or n-th. Thus, the converter being studied has a lower mean coding time, and, Card

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	consoquently, c realization of s	i greater mea uch an analog	n response time ( -to-digital converses used for section	than known pos	illon-comparin	g convorters	. The
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ACC NR AP7001826

SOURCE CODE: UR/0119/66/000/012/0017/0019

AUTHOR: Kondalev. A. I. (Candidate of technical sciences); Semeshko, Ye. A. (Engineer)

ORG: none

TITLE: High-speed balancing unit for cooling signals with a wide frequency spectrum

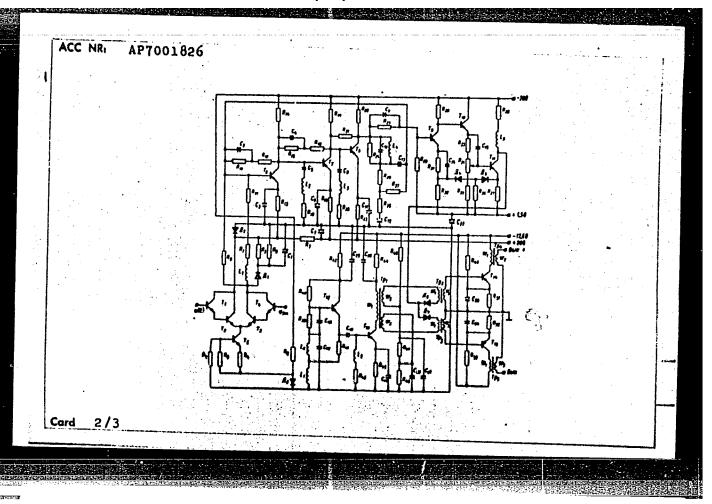
SOURCE: Priborostroyeniye, no. 12, 1966, 17-19

TOPIC TAGS: analog digital converter, trigger circuit, pulse signal, pulse generator, transistarizat amplifier, negative feedbach

ABSTRACT: A high-speed balancing unit is described for comparing cooling signals with reference signals from the time intervals determined by the frequency of coding pulses. The unit consists of a differential amplifier, a wide-band amplifier, a Schmidt trigger and two-channel controlled pulse generator (see Fig. 1). Differential transistorized amplifier  $(T_1-T_5$  transistors) separates and amplifies the signal of the difference between the voltage of the coding signal and the reference signal. This separated difference is in turn amplified by wide-band amplifier  $(T_b-T_g$  transistors). In order to stabilize operating conditions and to expand transmission band, all

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UDC: 621.3.083.4



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stages are provided with deep negative feedbacks  $(R_{10}; R_{12}; C_2; R_{15};$  $R_{16}$ ;  $C_4$ ; and  $R_{21}$ - networks). The stability of input resistances of the first and third amplifier stages is ensured by the  $C_5$ ,  $L_2$ ,  $R_{18}$ , and Ca, L3, R20 networks by reducing the input resistances of these stages to low frequencies. In addition to the local negative feedbacks, the amplifier as a whole is covered by a frequency-response feedback from the  $T_8$  collector. All galvanometric couplings are used in the wide-band amplifier, even with differential amplifier. The Schmidt trigger (T9-T11 transistors) serves as a valve for switching-over pulse-channels of the balancing unit. The two-channel pulse generator consists of master oscillator based on a three-point Hartley oscillator (T13), an amplifier-shaper, and the amplifiers for the summation and subtraction channels (T14, T15). The described unit may be used in analog-to-digital converters with bit-by-bit comparison, when high-speed of coding is necessary. In such cases, it is not necessary to use the two-channel pulse generator, and the logical networks in the pulse distribution block can be easily controlled by the output potentials of Schmidt trigger. Orig. art. has: 1 figure. [KM]

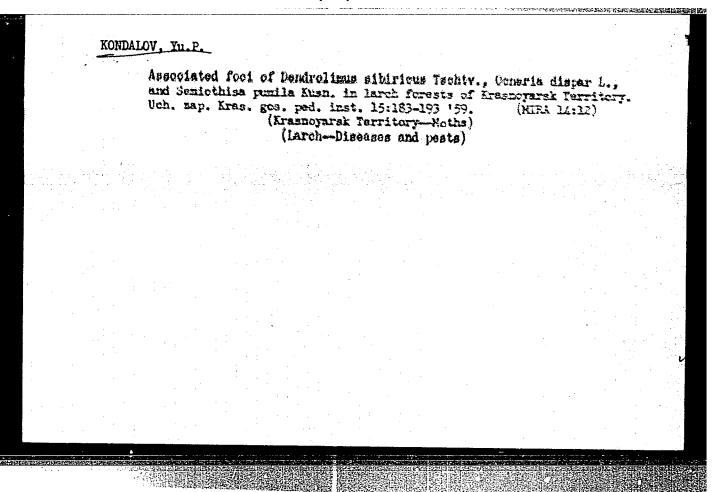
SUB CODE: 09/ SUBM DATE: none/ ORIG REF: 001

Card 3/3

COURTSOV. Anatoliy Il'ich, inzhener; KONDALOV, I.I., professor, redsktor;
AKULOV, N.P., kandidet tekhnicheskikh mauk, redsktor;
AKULOV, N.P., kandidet tekhnicheskikh mauk, redsktor;
redsktor izdstel'stva; GUSZVA, S.S., tekhnicheskiy redsktor

[Hydreulic fill methods for building earth dams] Mamyv zemlienykh
sooruzhenii. Pod obchchei red. I.I.Kandelova. Moskva, Gos.izd-vo
lit-ry po stroit. i arkhit., 1957. 177 p. (Miha 10:10)

(Dams)



5/205/63/003/001/026/029 E065/E485

AUTHORS:

Vavilov, P.P., Verkhovskaya, I.N., Kondaneva, R.P.

TITLE:

The growth and development of Vicia faba L. under

conditions of increased U and Ra content

PERIODICAL: Radiobiologiya, v.3, no.1, 1963, 132-138

To elucidate the relative importance of chemical and radiation effects of radioactive substances on plants, bean seedlings were grown in pots containing soil to which U (concentration  $4 \times 10^{-7}\%$ ) and Ra (1.06 x 10-7%) had been added, while control plants were grown in pots containing normal turf soil; control and treated pots were placed in one of two trenches, one having normal background radioactivity (0.00004 r/hour) and the other with a radiation level of 0.002 r/hour, derived from U  $(10^{-2}\%)$  and Ra  $(10^{-7}\%)$  sources in the walls. Observations were made for several weeks on the growth and development of plants kept under the four different environments. The results showed that the U and Ra had an injurious effect on growth, retarding the upward growth of the stem and the formation of new leaves,

The growth and development...

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reducing the general productivity (including fruit yield) and accelerating the processes of ageing. It was clearly shown that these effects were exerted when the U and Ra were not present in the soil and thus had no direct contact with the plants, indicating that their effects on growth are primarily associated with their radiation emissions rather than chemical properties. Analysis of plants grown on the supplemented soil indicated that Ra had been absorbed into the roots, leaves, stems and fruits, proving a. source of chronic internal radiation. There was, however, evidence that chemical factors, particularly in the case of U, also influenced growth adversely in a distinctive manner. Reasons for the effects on growth of the very minute radiation doses applied in the investigation are discussed: the results are thought to indicate the need for a revision of the threshold doses currently accepted for higher plants. There are 2 figures and 3 tables.

ASSOCIATION: Laboratoriya radiobiologii Komi filiala AN SSSR,

Syktyvkar (Radiobiology Laboratory, Komi Branch

AS USSR, Syktyvkar)

SUBMITTED: May 7, 1962

CIA-RDP86-00513R000824130009-4

KONDARAKT N.J.

AUTHORS:

Zelinskiy, V. V., Kolobkov, V. P., Kondaraki N. I.

20-3-10/52

TITLE:

On the Connection Between the Degree of Efficiency of Some Fluorescence Quenchers and the Position of the Fluorescence Spectrum (O svyazi effektivnosti deystviya nekotorykh tushiteley fluorestsentsii s polozheniyem spektra

fluorestsentsii)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 117, Nr 3, pp. 391-394 (USSR)

ABSTRACT:

The present paper carries out a qualitative investigation of the connection between the influence exercised by foreign admixtures upon the duration of the excited state and the position of the fluorescence spectrum. The degree of efficiency of the quencher (tushitel') is here characterized by the quantity

R = (T1-T2) n. /T1 T, C

Here T 1 denotes the duration of the excited state with the quencher lacking,  $T_2$  - the duration after a quencher has been added, with given concentration of the quencher, c - the concentration of the in mol/ $\ell\eta$  - the viscosity of the

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> solvent in poises. The quantity which is directly measurable is the difference of the phases of the modulated fluorescence light of the illuminated and not illuminated solutions. The process used here increases the a accuracy of the determination of the degree of efficiency of the quenchers considerably. As foreign quenching bodies iodine triethylamine, potassium iodide, aniline, and diethylaniline are used. The authors investigated the effect of these admixtures upon the duration of the fluorescence of some 3-, 4- and 3.6 derivatives of the phtalimide of several of the solvents mentioned here. The individual results of these investigations are shown in form of a table. 2 diagrams illustrate the dependence of the degree of efficiency of the quenchers on the position of the fluorescence spectrum of the respective solution for various derivatives of the phtalimide. In certain cases the degree, of efficiency increases with increasing frequency of the maximum of the fluorescence spectrum. A dependence of the degree of efficience on the position of the spectrum does not only exist, but it

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On the Connection Between the Degree of Efficiency of Some 20-3-10/52 Spectrum

is even essential: The influence of the other properties of the solvent upon the degree of efficiency is, however, of less importance. These rules, however, do not hold good with respect to the degree of efficiency of the action of the potassium oxide on the fluorescences of aqueous solutions. The behavior of individual derivatives is then discussed. There are 2 figures, 2 tables, and 3 references, all of which are Slavic.

PRESENTED: June 6, 1957, by A. N. Terenin, Academician

SUBMITTED: May 28, 1957

AVAILABLE: Library of Congress

Card 3/3

EMDINA, S. M.; KONDARATENKO, V. N. (Engr.)

Electric Welding

Speed regulator for welding parts of complicated form. Avtog. delo, 23, no. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

#### KONDAREV M

AGRICULTURE

KONDAREV, M. Ampelografiia; uchebnik za studentite ot lozarogradinarskiia fakultet, Plovdiv. Sofiia, Zemizdat, 1957. 259p. (Universitetska literatura) KA Not in DLC

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 2 February 1959, Unclass.

SOV/25-59-5-30/56

AUTHOR:

Kondarev, Mincho, Professor and Assistant Rector (Plovdiv)

TITLES

Bulgarian Vineyards

PERIODICAL:

Nauka i zhizn', 1959, No. 5, pp 40-47 (USSR)

ABSTRACT:

The author describes vineyards and the vine industry in Bulgaria, which has been nationalized. The vineyards occupy 6000 hectars with modern methods of cultivation. Artificial fertilizers increased production by 50 to 100%, reaching 15,910 kg of grapes p/hectare at Perushitsa near Plovdiv. The exportation of grapes increased from 57 million kg in 1941 to 100 million kg in 1958. There are 4 drawings.

ASSOCIATION:

Vysshiy selskokhozyaystvennyy institut imeni V. Kolarova (The Higher Agricultural Institute imeni V. Kolarov)

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